

**Comments for VADEQ TAME QAPP**  
**Submitted by EPA R3 on ??/??/????**

| Element                         | Element No. | Section Page | Comment   |
|---------------------------------|-------------|--------------|---|
| Problem Definition/background   | 5           | 31           | Also include in this element of the QAPP: The project start date (can be estimate, such as "Q2 of 2022") and the duration of the study (i.e., "2 years").   |
| Project/Task Description        | 6           | 35           | Also include in this element of the QAPP: A timeline of project milestones (i.e., site selection, community meetings, data collection, data reporting, etc.).   |
| Data Quality Objectives (DQOs)  | 7.1         | 42           | Relate the DQOs to this specific study  |
| Measurement Quality Objectives  | 7.4         | 43           | The MQOs should be defined for this specific project. Will there be any differences in the MQOs for the sensors and FRM/FEMs?   |
| Ambient Air Monitoring Training | 8.1         | 46           | The link for the Air Pollution Training Institute (APTI) doesn't work. Try this one: [ HYPERLINK "https://www3.epa.gov/ttn/apti/index.html" ]   |
| Routine Data Activities         | 9.1.1       | 50           | Include sample custody records in bulleted list.  |
| Network Description             | 10          | 54           | This element of the QAPP will also need to contain sampling locations and a discussion on why the site location was chosen.   |
| TAME Monitoring Network Design  | 10.2        | 55           | <i>"The DEQ, with community input will select all monitoring sites accordance with the siting regulations in 40 CFR Part 58, Appendix D – Network Design Criteria for Ambient Air Quality Monitoring"</i><br><br>What about 40 CFR Part 58, Appendix E? What kinds of community input will be considered?   |
| Sampling Methods Requirements   | 11          | 58           | This element of the QAPP will also need to define the make/model of the sensors used in this study, along with a discussion on the sampling method. A SOP must be developed for field operation of the sensors and should be referenced here.   |
| Field Activities                | 12.2        | 65           | <i>"The exposed filter will be folded with the exposed sides together and inserted into a labeled envelope".</i><br><br>Reference Figure 5 here.  |
| TSP and PM10 Methods            | 13.1        | 68           | <i>"Select TSP filters will be qualitatively analyzed using a light polarizing microscope".</i><br><br>Define "select". Who will perform this analysis? Is there an SOP for this analysis? If so, it should be referenced in this QAPP.   |
| Testing                         | 15.1.1      | 101          | <i>"The air quality sensors purchased for this study will not require any adjustment or calibration".</i><br><br>Element 14 mentions that the sensors will be collocated with FRM/FEMs for a period of time before deployment. Include any acceptance criteria that will be used to verify the sensors are ready and acceptable for field deployment. |

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|---|--------------|-----|--|
| Continuous PM10/PM2.5 Analyzers             | 15.2.2<br>.2 | 105 | Include a similar section for the air quality sensors.   |
| Field Data Recording                        | 19.1         | 120 | Add sensor-specific data management practices to this element of the QAPP.   |
| Semi-Annual Reports                         | 21.1.2       | 130 | Include information in this QAPP about how data will be reported and at what frequency. Who will the data be shared with? Will there be a report completed at the end of the study? What will be the contents of the report? |
| Reconciliation with Data Quality Objectives | 24           | 144 | Add to this element of the QAPP: A discussion of how results will be documented and communicated, as well as how any limitations on the use of the data will be communicated.  |